

Figure 1: Atreus xLINK™ Service Creation Solution Components

Fig. 1

Figil

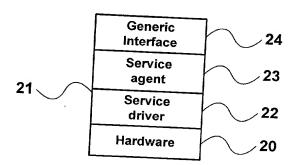
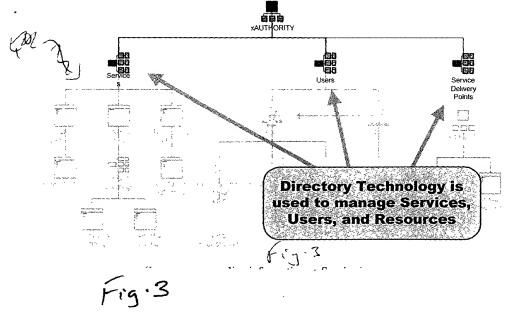


FIG. 2

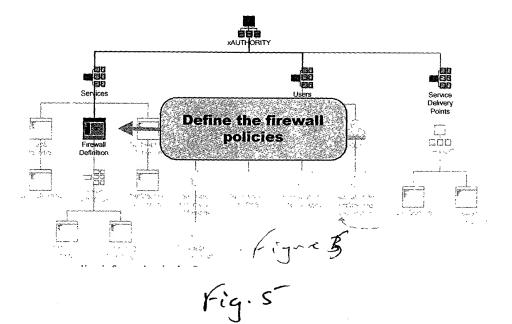


XML Document: Configuration (1)

XML

<configuration:document xmlns:configuration="http://www.atreus-systems.com/TR/WD-service">

- <rule priority=0 direction="input" default="accept" id="setup(1)">
- <rul><rule priority=0 direction=forward" default="deny" id="setup(1)" >
- <rule priority=0 direction="output" default="accept" masquerade="false" id="setup(1)">
- <rule priority=1 direction="forward" s="64.154 202.227/32" d="0.0.0.0/0" port="any" id="activation(1)">
 </configuration:document>



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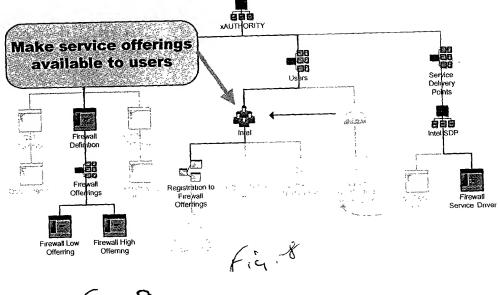


Fig. 8

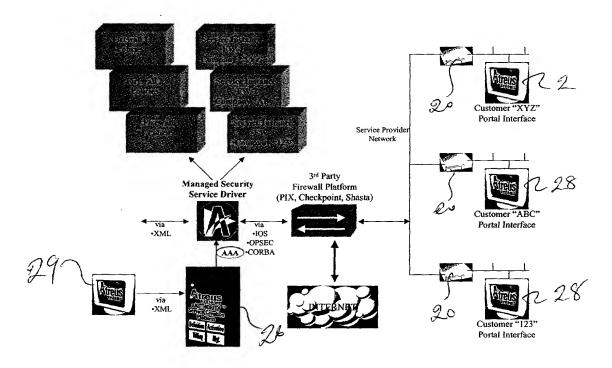


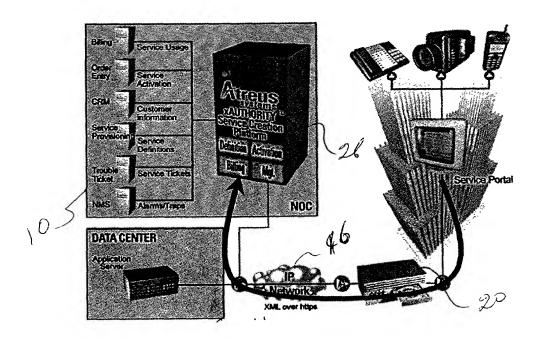
Fig. 9

XML Document: Registration (1)

XML

- <registration:document xmlns:registration="http://www.atreus-systems.com/TR/WD-service"</p>
- <activation:document xmlns:activation="http://www.atreus-systems.com/TR/WD-service">
- <registration:variable name="address" from="portal">
- <registration:variable name="user" from="portal">
- <registration:variable name="firewall" from="LDAP">
 - <rul>< scope="\$user" name="firewall" find="association">
- </registration:variable>
- <registration:variable name="qos" from="LDAP">
 - <rule scope="\$user" name="qos" find="association">
- </registration:variable>
- <registration:policy name="\$firewall" method="activate" id="\$self">
 - <rul><rule priority=1 direction="forward" s="\$subscriber/32" d="0.0.0.0" port="any" >
- </registration:policy>
- <registration:policy name="Squs" niethod="activate" id="\$salf">
- <rule address='Ssubscriber' qos= gold">
- < registration policy>
- <registration:policy name="cn=billing, .. " method="journal" id="\$self'>
 - <rule customer="\$user" service="NetMeeting">
- </registration:policy>
- </activation:document>
- </registration:document>

Fig. 10



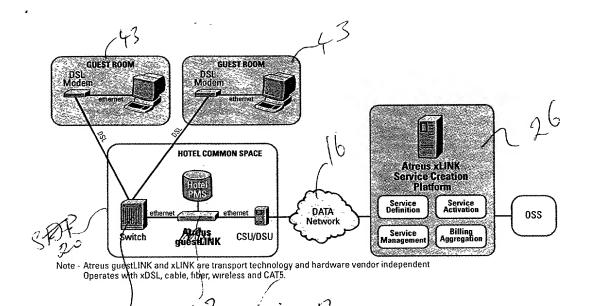
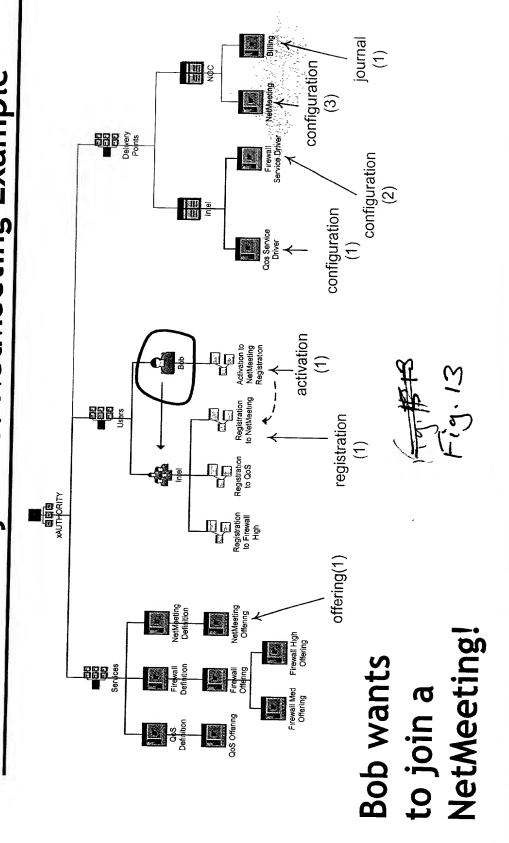


Fig.12 Fig.12



xLINK Directory Tree: NetMeeting Example





Atreus Systems Corp. Confidential

xLINK Directory Tree: Services

—x_association=intel,xl_serviceOffering=HostNetMeetingOffering,xl_serviceDefinition=HostNetMeeting,xl_orgUnit=Services,xl_amp=AMP X_serviceOffering=HostNetMeetingOffering,X_serviceDefirition≖HostNetMeeting,X_orgUnit=Services,X_amp=AMP —×Lassociation=Bob,×Lassociation=HostNetMeeting,×Lgroup=Intel,×LorgUnit=Users,×Lamp=AMP —×l_association=operatorGroup,xl_user=operator,xl_orgUnit=Users,xl_amp=AMP 라지_association=HostNetMeeting,X_group=Intel,XI_orgUnit=Users,XI_amp=AMP —×l_association≈HostNetMeeting,×l_user≖Bob,×l_orgUnit=Users,×l_amp=AMP X_serviceDriver=NotMeeting,X_bac=NOC,XT_orgUnit=5BP9,X_amp=AMP ^{_}-×i_association=adminGroup,×i_user≈admin,×i_orgUnit±Users,×i_amp=AMP -X_serviceDriver=Firewall,X|_bac=Intel,X|_orgUnit=SDPs,X|_amp=AMP 'X_serviceDefinition=HostNeting,X_orgUnit=Services,x_amp=AMP -×|_serviceDriver=QOS,x|_bac*Intel,x|_orgUnit=SDPs,x|_amp=AMP —×l_association=Bob,xl_group=Intel,xl_orgUnit=Users,xl_amp=AMP −×LserviceDefinition*NetMeeting,×LorgUnit=Services,×Lamp*AMP --XLassociation=intel,XLuser=Bob,XLorgUnit=Users,XLamp=AMP -xl_serviceDefinition=Firewall,xl_orgUnit=Services,xl_amp=AMP -XL_serviceDefinition=QOS,XL_orgUnit=Services,XL_amp=AMP -X_grorgUnit*adminGroup,X_orgUnit=Users,X_amp=AMP TXI_group=operatorGroup,XI_orgUnit=Users,XI_amp=AMP _user=operator,xl_orgUnit=Users,xl_amp=AMP 라시_user=admin,xl_orgUnit=Users,xl_amp=AMP -XI_group=Intel,XI_orgUnit=Users,XI_amp=AMP xi_bac*NOC,xi_orgUnit*SDPs,xi_amp*AMP -xl_user=Bob,xl_orgUnit=Users,xl_amp=AMP 다지_bac=Intel,서_orgUnit=SDPs,서_amp=AMP 由 xl_orgUnit=Services,xl_amp=AMP TX_orgUnit=SDPs,XL_amp=AMP TXI_orgUnit=Users,XI_amp=AMP XL_AMP=AMP File Mode

Fig. 19

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xLINK Directory Tree: Users

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白-x user=operator X orgUnit=Users X amp=AMP
라지 group=operatorGroup, X orgUnit=Users, X amp=AMP
L-xi_association=operator;Xi_group=operatorGroup;Xi_orgUnit=Users;Xi_amp=AMP
A association=Bob,XL-group=Intel,XL-group=Intel,XL-amp=AMP
四字 association=HostNetMeeting X_group=Intel,X_orgUnit=Users,X_amp=AMP
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-X_serviceDefinition=Firewall,X_orgUnit=Services,X_amp=AMP
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Selection (1) Se

xLINK Directory Tree: Delivery Points

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Define Service Offering

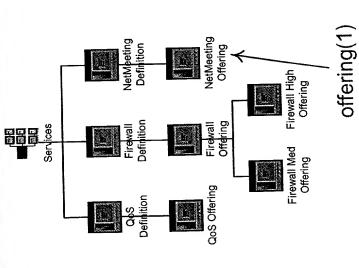
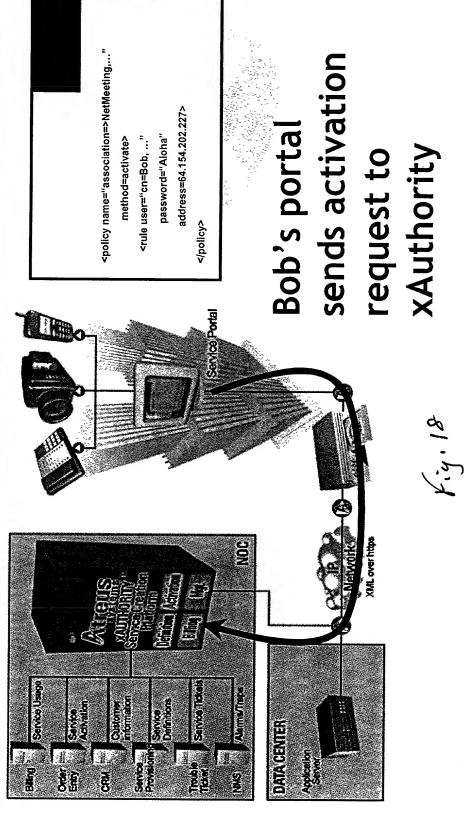


Fig. 17

<re>cregistration:document xmlns:registration="http://www.atreus-systems.com/TR/WD-service"> <activation:document xmlns:activation="http://www.atreus-systems.com/TR/WD-service"> <rule priority=1 direction="forward" s="\$subscriber/32" d="0.0.0.0" port="any" > <offering:document xmlns:offering="http://www.atreus-systems.com/TR/WD-service"> <registration:pollcy name="cn=billing, ..." method="journal" id="\$self"> <registration:policy name="\$firewall" method="activate" id="\$self"> <registration:policy name="\$qos" method="activate" id="\$self"> <registration:variable name="address" from="portal"> <registration:variable name="firewall" from="LDAP"> <rul><rule customer="\$user" service="NetMeeting"> <registration:variable name="user" from="portal"> <registration:variable name="qos" from="LDAP"> <rul><rule address="\$subscriber" qos="gold"></rul> XML Document: offering (1) </re> </activation:document> </re> </re> </re> </re> </redistration:policy> </ordinary

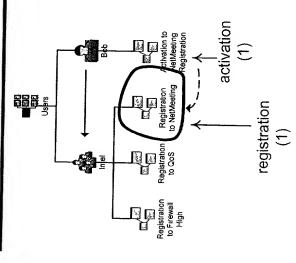
Bob Activates the NetMeeting Service



xAuthority



Activate NetMeeting Registration Policy



xAuthority uses
the registration to
complete an
activation
document for Bob

XML Document: Registration (1)

<re></re><registration:document xmlns:registration="http://www.atreus-systems.com/TR/WD-service">

<activation:document xmlns:activation="http://www.atreus-systems.com/TR/WD-service">

<registration:variable name="address" from="portal">

<registration:variable name="user" from="portal">

<registration:variable name="firewall" from="LDAP">

<rule scope="\$user" name="firewall" find="association">

</re>

<registration:variable name≕"qos" from≕"LDAP">

<rul><!ul><!-- secope="\$user" name="qos" find="association"><!ul><!-- secope="secope"><!ul><!-- secope="secope"></

</re>

<registration:policy name="\$firewall" method="activate" id="\$self">

<rul><rul>rule priority=1 direction="forward" s="\$subscriber/32" d="0.0.0.0" port="any" >

</redistration:policy>

<re>distration:policy name="\$qos" method="activate" id="\$self">

<rule address="\$subscriber" qos≕"gold">

</re>

<re>registration:policy name="cn=billing, ..." method="journal" id="\$self"></ri>

<rul>< customer="\$user" service="NetMeeting">

</redistration:policy>

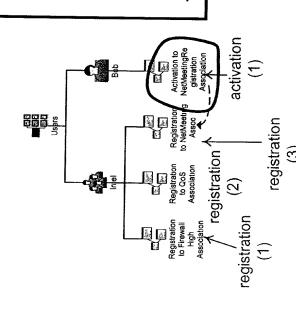
</activation:document>

</re>

Pig. 19



NetMeeting Activation Policy



XML Document: Activation (1)

<activation:document xmlns:activation="http://www.atreus-systems.com/TR/WD-service">

<activation:policy dn="cn=Chicago, …" method="activate" id="activation(1)">

<rule priority=1 direction="forward" s="64.154.202.227/32" d="0.0.0.0" port="any" protocol="any">

</activation:policy>

<activation:policy dn="cn=Chicago, ..." method="activate id="activation(1)">

<rule address="64.154.202,227" qos="gold">

</activation:policy>

<activation:policy name="cn=billing, ..." method="journal" id="activation(1)">

<rul>< customer="dn=>cn=Bob,..." service="NetMeeting">

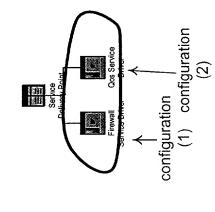
</activation:document>

xAuthority keeps a record of Bob's activation policy

Kid. 20



Service Driver Configuration



<rule priority=0 direction="input" default="accept" id="setup(1)"> <rule priority=0 direction=forward" default="deny" id="setup(1)" > <rule priority=0 direction="output" default="accept" masquerade="false" id="setup(1)"> <rule priority=1 direction="forward" s="64.154.202.227/32" d="0.0.0.0/0" port="any" id="activation(1)"> </configuration:document>

<configuration:document xmlns:configuration="http://www.atreus-systems.com/TR/WD-service">

XML Document: Configuration (1)

XML Document: Configuration (2)

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xAuthority maintains a complete service driver activation policy



Service Driver Configuration

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Fig. 22